

Figure 1

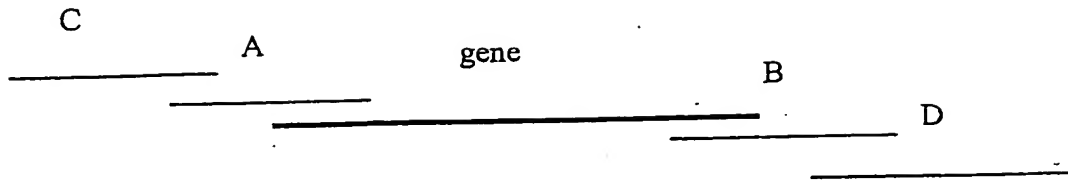


Figure 2

HL with stem length 6bp: -7,8 kcal/mol

```

      A
    A  U
    C  U
    U-A
    G-C
    G-C
    U-A
    C-G
    A-U
  
```

5'-.....AGGAGAUAUACCAUG ACUAGCAAAGGAGAA... -3'

HL with stem length 7bp -8,6 kcal/mol

```

      C A
    A  U
    U  C
    U-A
    U-A
    C-G
    G-C
    U-A
    C-G
    A-U
  
```

5'-.....AGGAGAUAUACCAUG ACUAGCAAAGGAGAA... -3'

Figure 2 (continued)

HL with stem length 4 bp

-4,1 kcal/mol

U U

A U

A-U

U-A

C-G

A-U

5'-.....AGGAGAUAUACCAUG ACUAGCAAAGGAGAA...-3'

HL with stem length 5 bp

-4,4 kcal/mol

U A

U U

U-A

G-C

U-A

C-G

A-U

5'-.....AGGAGAUAUACCAUG ACUAGCAAAGGAGAA...-3'

HL with stem length 8 bp

-11,8 kcal/mol

U U

G-C

C-G

A-U

C-G

G-C

U-A

C-G

A-U

5'-.....AGGAGAUAUACCAUG ACUAGCAAAGGAGAA...-3'

Figure 3

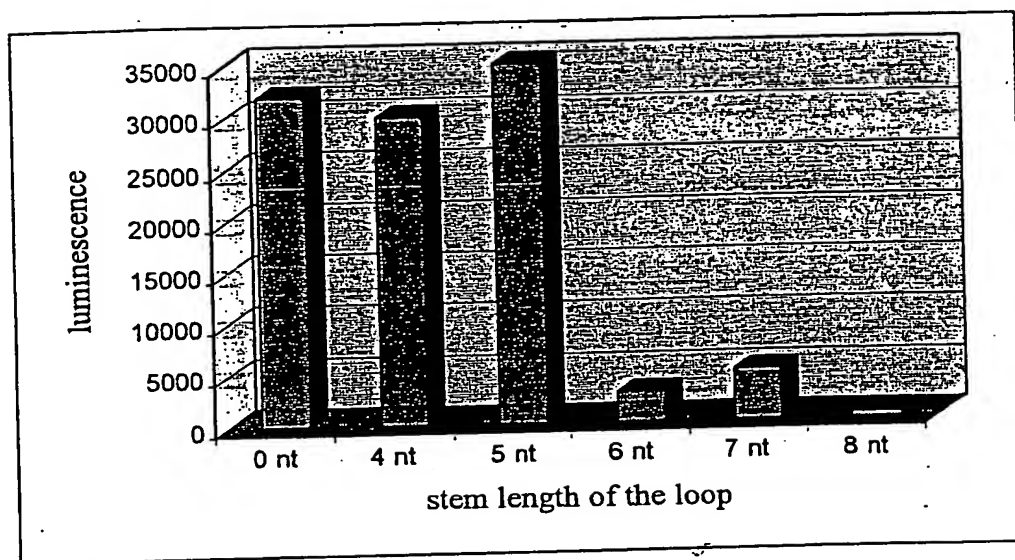


Figure 4

HL with stem length 8 bp, 6 bases after start ATG

```

      G A
    U   U
      G-C
      C-G
      A-U
      C-G
      G-C
      U-A
      C-G
      A-U
  
```

5'-.....AGGAGAUAUACCAUGACUAGC AAAGGAGAA...-3'

HL with stem length 8 bp, 9 bases after start ATG

```

      G A
    U   U
      G-C
      C-G
      A-U
      C-G
      G-C
      U-A
      C-G
      A-U
  
```

5'-.....AGGAGAUAUACCAUGACUAGCAAA GGAGAA...-3'

HL with stem length 8 bp, 12 bases after start ATG

```

      G A
    U   U
      G-C
      C-G
      A-U
      C-G
      G-C
      U-A
      C-G
      A-U
  
```

Figure 4 (continued)

5'-.....AGGAGAUAUACCAUGACUAGCAAAGGA GAA...-3'

GA
U U
G-C
C-G
A-U
C-G
G-C
U-A
C-G
A-U

5'-.....AGGAGAUAUACCAUGACUAGCAA A GGAGAA...-3'

HL with stem length 8 bp, 12 bases after start .

- ATG:
GA
U U
G-C
C-G
A-U
C-G
G-C
U-A
C-G
A-U

5'-.....AGGAGAUAUACCAUGACUAGCAAAGGA GAA...-3'

Figure 4 (continued)

HL with stem length 8 bp, 15 bases after start ATG

G A
U U
G-C
C-G
A-U
C-G
G-C
U-A
C-G
A-U

5'-.....AGGAGAUAUACCAUGACUAGCAAAGGAGAA GAA...-3'

HL with stem length 8 bp, 18 bases after start ATG

G A
U U
G-C
C-G
A-U
C-G
G-C
U-A
C-G
A-U

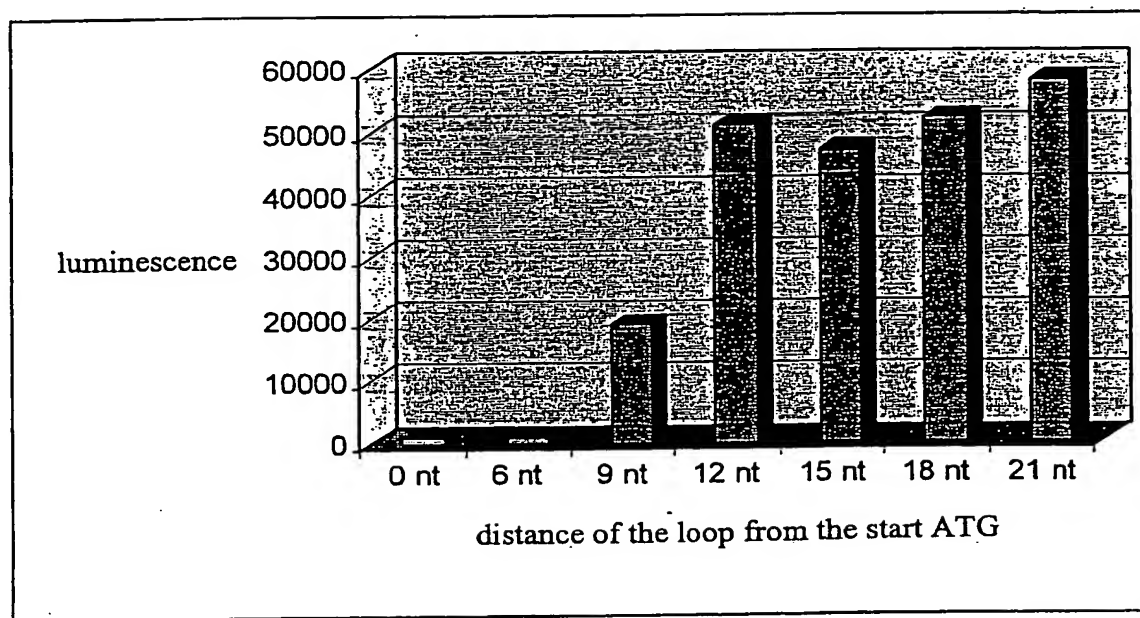
5'-.....AGGAGAUAUACCAUGACUAGCAAAGGAGAAGAA CTT...-3'

HL with stem length 8 bp, 21 bases after start ATG

G A
U U
G-C
C-G
A-U
C-G
G-C
U-A
C-G
A-U

5'-.....AGGAGAUAUACCAUGACUAGCAAAGGAGAAGAACTT TTC...-3'

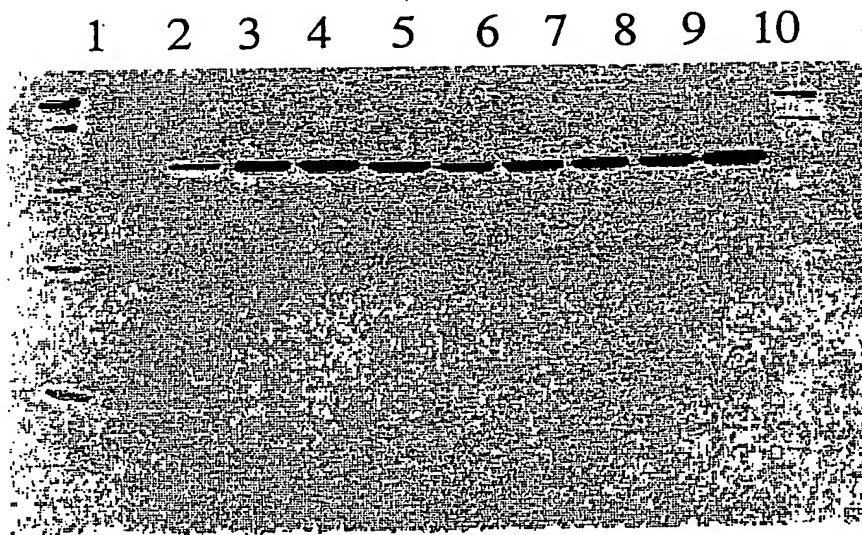
Figure 5



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Figure 6

Lane 1-9 = mutant 9-1 Lane 1 corresponds to the wild-type sequence



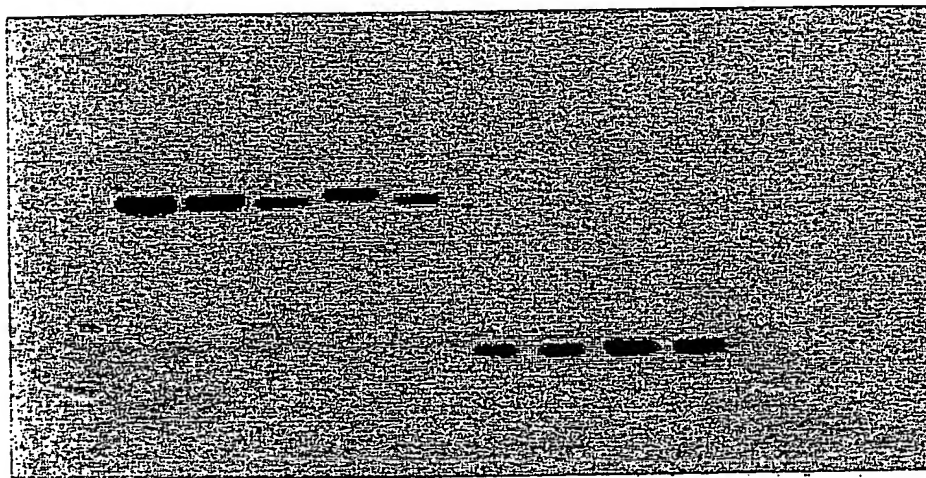
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Figure 7

GFP/1049

Lanes 1,2 = mutant 1,2 GFP without loop, Lanes 3,4 = mutant 1,2 GFP with loop
Lane 5 corresponds to the GFP wild-type sequence. Lanes 6,7 = mutant
1,2 1049 without loop. Lanes 8,9 = mutant 1,2 1049 with loop. Lane 10
corresponds to the 1049 wild-type sequence.

1 2 3 4 5 6 7 8 9 10



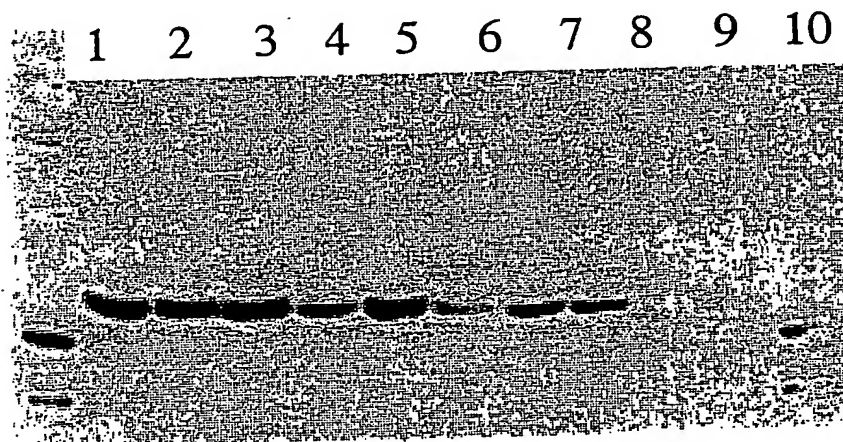
10/538405

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Figure 8

Survivin

Lanes 1-9 = mutant 1-9. Lane 10 corresponds to the wild-type sequence



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Figure 9

GFP

Lanes 1-9 = mutant 1-9. Lane 10 corresponds to the wild-type sequence

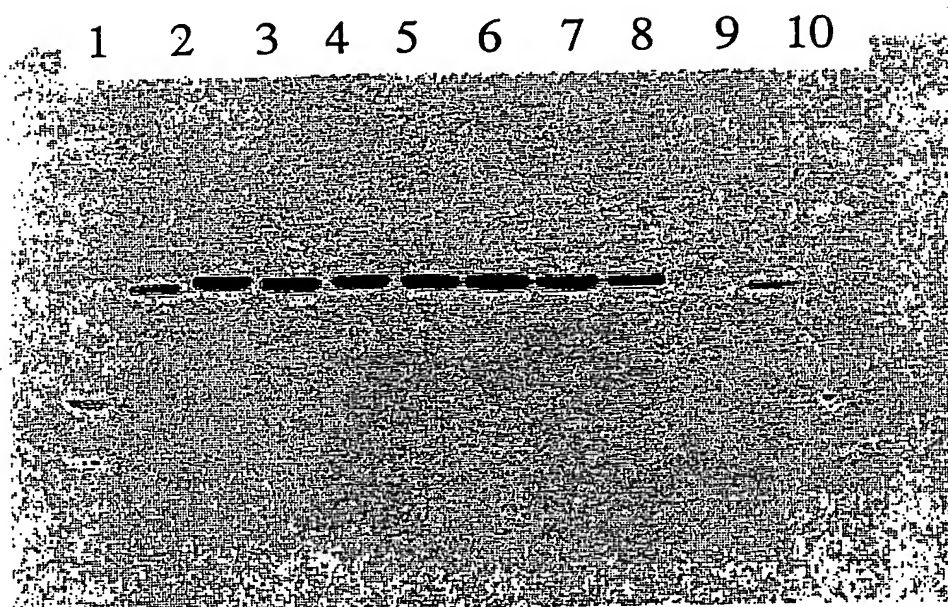


Figure 10**GFP/1049**

Lanes 1,2 = mutant 1,2 GFP without loop. Lanes 3,4 = mutant 1,2 GFP with loop.
Lane 5 corresponds to the GFP wild-type sequence. Lanes 6,7 = mutant
1,2 1049 without loop. Lanes 8,9 = mutant 1,2 1049 with loop. Lane 10
corresponds to the 1049 wild-type sequence.

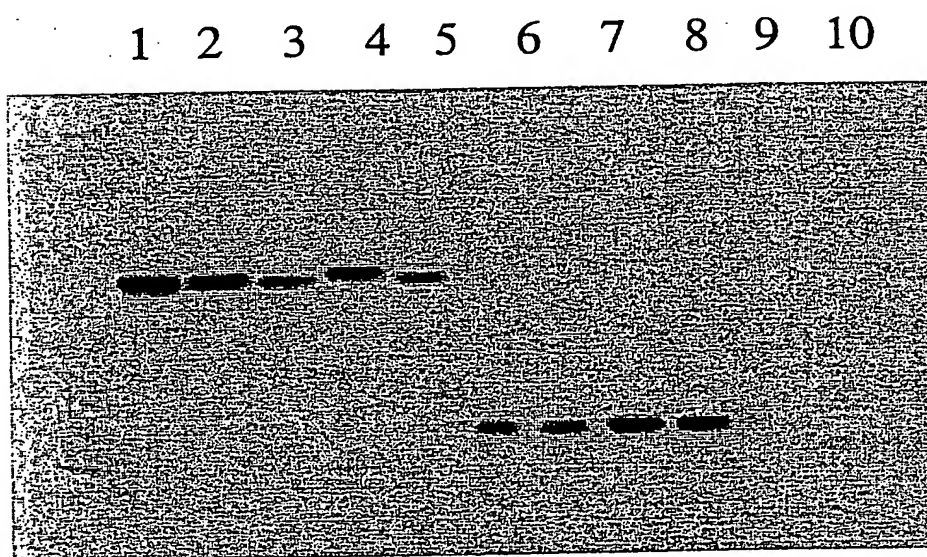


Figure 11**CIITA/Survivin**

Lane 1 corresponds to the CIITA wild-type sequence. Lanes 2,3 = mutant 1,2 CIITA with loop. Lanes 4,5 = mutant 1,2 CIITA without loop. Lane 6 corresponds to the survivin wild-type sequence. Lanes 7,8 = mutant 1,2 survivin with loop. Lanes 9,10 = mutant 1,2 survivin without loop.

1 2 3 4 5 6 7 8 9 10

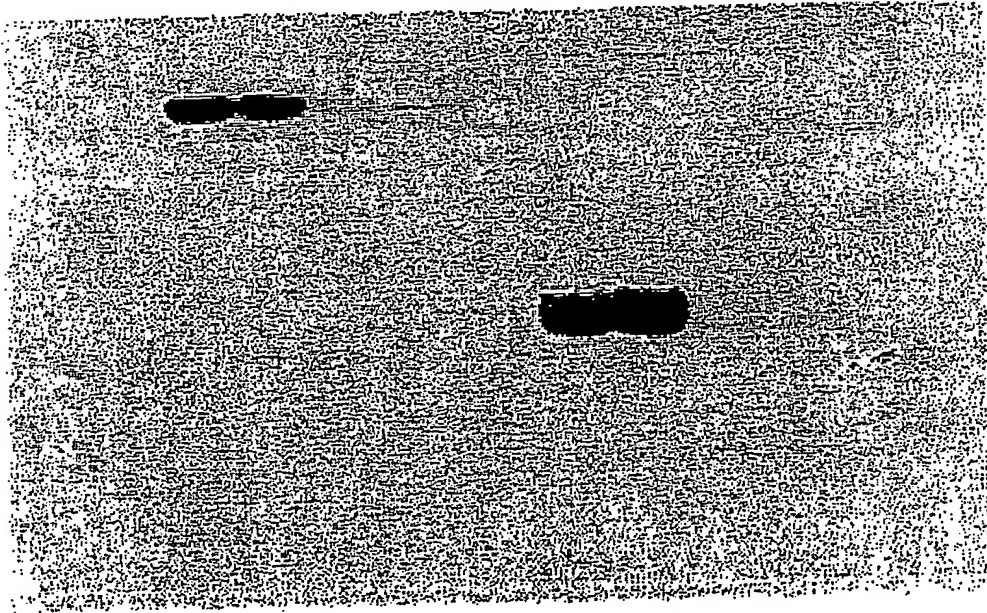


Figure 12

Loop	Loop'
G A	G A
T T	A T
G-C	T-A
C-G	A-T
A-T	A-T
C-G	A-T
G-C	C-G
T-A	A-T
C-G	G-C
	A-T
	C-G-T-A

Figure 13

1049/Survivin(CIITA loop and loop' variants

Lane 1 1049 mutant 1 loop, lane 2 mutant 1 loop', lane 3 corresponds to the 1049 wild-type sequence; lane 4 survivin mutant 1 loop, lane 5 mutant 1 loop', lane 6 corresponds to the survivin wild-type sequence; lane 7 CIITA mutant 1 loop, lane 8 mutant 1 loop', lane 9 corresponds to the CIITA wild-type sequence

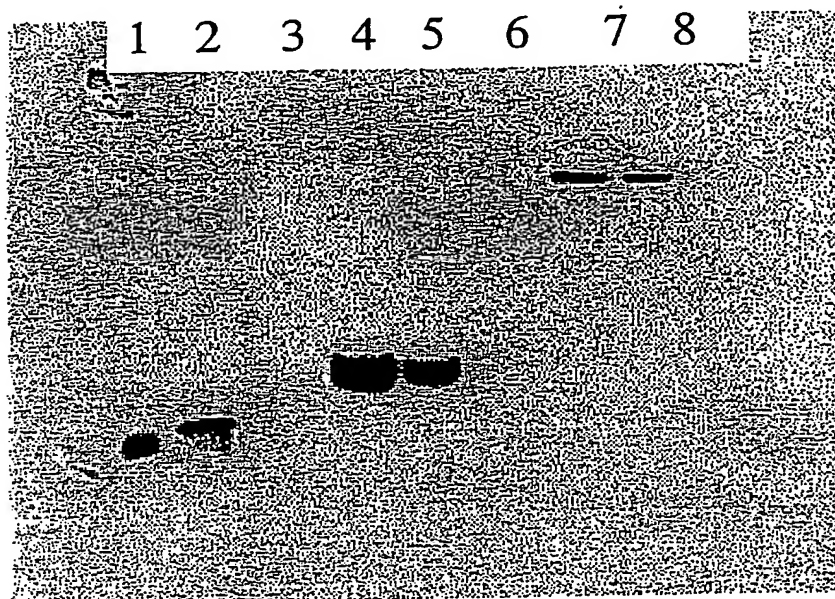


Figure 14

